



CLAIMS

- In a wireless communication system, a method comprising:
 determining a transmission configuration for a first channel as a function
 of Peak-to-Average Ratio (PAR) on the first channel, the
 transmission configuration including a spreading code and a
 modulation path;
 - if the spreading code if used by another channel in the wireless communication system, updating the transmission configuration as a function of PAR; and applying the transmission configuration to the first channel.
- 2. The method as in claim 1, wherein the modulation path is selected from an In-phase (I) branch and a Quadrature (Q) branch.
- 3. The method as in claim 2, wherein the first channel is a dedicated physical channel on an uplink in the wireless communication system.
- 4. The method as in claim 3, wherein the wireless communication system includes a plurality of dedicated data channels and at least one dedicated control channels.
- 5. A wireless communication apparatus, comprising:
 means for determining a transmission configuration for a first channel as
 a function of Peak-to-Average Ratio (PAR) on the first channel,
 the transmission configuration including a spreading code and a
 modulation path;
 - means for updating the transmission configuration as a function of PAR if the spreading code if used by another channel in the wireless communication system; and

means for applying the transmission configuration to the first channel.





6. A wireless apparatus, comprising:

modulation pair selection unit for determining a modulation pair based on Peak-to-Average Ratio (PAR); and selector coupled to the modulation pair selection unit, that selects a modulation path based on the modulation pair.